I claim:

1) In a system that includes a call admission control mechanism and where telephone calls are packetized using loss-less codecs for transmission on a communication link having a particular bandwidth, the method which includes the steps of:
monitoring the amount of bandwidth being used to transmit calls on said communication link, and
feeding back to said call admission control mechanism a signal to limit the calls admitted when the bandwidth being used approaches said particular bandwidth.

2) The method recited in claim 1 including a policing method for said communication link which identifies calls of lower priority and which suppresses the transmission of packets from calls having a lower priority when the bandwidth usage of said communication link reaches a predetermined level.

3) A method of controlling the number of calls admitted to a system for transmission on a communication link having a particular bandwidth comprising the steps of:
monitoring the bandwidth being used to transmit calls on said communication link, and
limiting the number of calls admitted for transmission on said link when the bandwidth being used approaches said particular bandwidth.

4) A system for transmitting calls over a packet communication link including, a call admission control mechanism which controls the admission of calls for transmission over said communication link, loss-less codecs which compress and packetize calls for transmission over said communication link, a monitoring system for monitoring the amount of bandwidth being used on said communication link, and a feedback path from said monitoring system to said admission control mechanism whereby the calls admitted for transmission

over said link are limited when the amount of bandwidth being used on said link approaches a predetermined amount.

5) The system recited in claim 4 wherein at least some of the calls being transmitted over said communication link are identified as lower priority calls, and where a policing mechanism restricts the number of packets transmitted for said lower priority calls when the bandwidth usage on said link reaches a predetermined amount.

6) The method recited in claim 1 wherein said communication link connects a Base Transceiver Station to a Base Station Controller.

7) The system recited in claim 4 wherein said communication link connects a Base Transceiver Station to a Base Station Controller.

8) The method recited in claim 6 wherein said Base Transceiver Station and said Base Station Controller operate using the Global System for Mobile Communication" (GSM) system protocol.

9) The system recited in claim 7 wherein said Base Transceiver Station and said Base Station Controller operate using the Global System for Mobile Communication" (GSM) system protocol.

10) The method recited in claim 8 wherein each of said loss-less codecs is associated with one DS0 channel and handles four telephone calls.

11) The system recited in claim 9 wherein each of said loss-less codecs is associated with one DS0 channel and handles four telephone calls.

12) In a communications system that includes a call admission control mechanism, the combination of:
means for packetizing telephone calls using loss-less codecs for transmission on a communication link having a particular bandwidth,

means for monitoring the amount of bandwidth being used to transmit calls on said communication link, and
means for feeding back to said call admission control mechanism a signal to limit the calls admitted when the bandwidth being used approaches said particular bandwidth.

13) A telephone call communication system including,
a call admission control system for admitting calls for transmission by said communication system,
a packet transmission link having a particular bandwidth,
loss-less codecs for packetizing telephone calls for transmission on said packet transmission link,
a monitoring mechanism for monitoring the amount of bandwidth being used to transmit calls on said packet transmission link, and
a feedback mechanism for feeding back to said call admission control system a signal to limit the calls admitted when the bandwidth being used approaches said particular bandwidth.

14) The system recited in claim 12 wherein said communication link connects a Base Transceiver Station to a Base Station Controller.

15) The system recited in claim 13 wherein said communication link connects a Base Transceiver Station to a Base Station Controller.

16) The system recited in claim 14 wherein said Base Transceiver Station and said Base Station Controller operate using the Global System for Mobile Communication" (GSM) system protocol.

17) The system recited in claim 15 wherein said Base Transceiver Station and said Base Station Controller operate using the Global System for Mobile Communication" (GSM) system protocol.

18) The system recited in claim 12 wherein each of said loss-less codecs is associated with one DS0 channel and handles four telephone calls.

19) The system recited in claim 13 wherein each of said loss-less codecs is associated with one DS0 channel and handles four telephone calls.

20) A method of transmitting calls on a communication link that connects a Base Transceiver Station and a Base Station Controller in a system operating according to the Global System for Mobile Communication" (GSM) system protocol, said system including a call admission control mechanism for admitting calls for transmission on said communication link, said communication link having a particular bandwidth, said method including the steps of:
packetized telephone call for transmission on said communication link using loss-less codecs:
monitoring the amount of bandwidth being used to transmit calls on said communication link, and
feeding back to said call admission control mechanism a signal to limit the calls admitted when the bandwidth being used approaches said particular bandwidth.

21) A system for transmitting calls on a communication link that connects a Base Transceiver Station and a Base Station Controller operating according to the Global System for Mobile Communication" (GSM) system protocol, said communication link having a particular bandwidth, the combination of:
means for admitting calls for transmission on said communication link,
loss-less codecs means for packetized telephone calls admitted for transmission on said communication link,
means for monitoring the amount of bandwidth being used to transmit calls on said communication link, and
means for feeding back to said call admission control mechanism a signal to limit the calls admitted when the bandwidth being used approaches said particular bandwidth.